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Date of Investigation:	10/16/86	County: Fallas Fortable: Mo
investigation 96:	518880A	Type: SIP X recrit
COMPANY INFORMATION:		
company have:	Consolidated Casting Corp DB-1563-0	poration
Location:	1501 South I-45 Hutchins, Texas 75141	
- Cailing Address:	Same	
r	Tom Cumirs Operations Mgr 7214 /225-7305	
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Investigator:	Eddie Mack	was park and the same time

Approved by:

Date:

9490345

October 16, 1906 Dallas County Consolidated Casting Corporation

- I. TYPE OF OPERATION: Stewl investment cas incs.
- II. FACILITY HISTORY/ MARCEMENT/COMTACTS: Consolidated Casting Corporation is a subsidiary of Rochester Gauges, Inc. This facility was constructed in late 1995 and early 1996 as a replacement for the commany's facility at 2425 Caroline Street in Dallas (D3-0201-M). Operations began here in July 1995. The Callas facility shut down in May 1996. Mr. Tom Cumins is Operations Manager and TACR contact. Ar. Ohil Rensel was the Safety Administrator but has been replaced by Mr. Sam Sims.
- III. FERMIT SUMMEY. Mone. The following Standard Exemptions appear to be applicable:

Steel Shot and Aluminum Oxide Blast Cleaning - Exemption 100 Induction Furnaces - Exemption 50 Beat Treating - Exemption 57

- IV. COMPLIANCE SUMMARY: Standard Exemption 52 was confirmed by letter dated 11/8/95 for three electric induction furnaces.
- V. SAMPLIME SIGNARY: "one by an far the TACS.
- VI. DESCRIPTION OF PROCESSES/THROUGHPET:

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Raw Materials:	Steel (stainless and allov)	75,000	Ths/month
	Cround fire brick	12,000	1hs/month
	Fused silica	6,300	15s/month
	Alumina silicate .	6,000	15s/month
	Ground zircon	1,500	lbs/month
	Vax	750	Ths/month
	Colloidal silica (30° Si0o,	3,125	cal/month
	73° water)	,	

The facility produces precision castings, primarily for the petroleum industry. A tooling of the desired item is presented by the customer. Hot wax is injected into the tooling, and the resultant wax patterns are exact duplicates of the casting to be made. The wax patterns are placed onto a pattern tree containing up to several hundred units. The trees are then coated with a series of layers of a colloidal sand and water mixture which is allowed to dry to form a hard shell. The wax is melted out in an autoclave. The molds are heated in one of six cas-fired furnaces equipped with afterburners. Steel is melted in three electric induction furnaces, cast into the molds and allowed to cool. The molds are then broken and the castings are removed from the pattern tree by sawing. The parts are finished by grinding, blast cleaning using three steel shot units and four aluminum oxide units, and heat treating. The blast cleaning units are ducted to a large Wheelabrator baghouse. The grinding operations are hooded and ducted to a second large Wheelabrator baghouse.

- VII. COMMENTS: The facility was in operation and no visible emissions were noted.
- VIII. RECOMMENDATION: Maintain routine surveillance.